

# HIRDLS

## HIGH RESOLUTION DYNAMICS LIMB SOUNDER

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HIRDLS instrument alignment definitions

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## HIRDLS Alignment Definitions

The following definition of a coordinate system is proposed in order to clarify instrument alignment requirements and to facilitate the assembly, integration, and alignment measurement methods currently proposed.

The X-Y plane is defined by the “bottom” (-Z surface) of the mounting feet of M1, M3 and M6.

+Y is defined by the line in the X-Y plane drawn from the center of the hole in M3 through the center of the hole in M6. (See Figure 1.)

+X is the line in the X-Y plane passing through the centerline of the hole in M1 and orthogonal to Y.

The nominal position of the instrument alignment cube (IAC) is not critical. However after the IAC is in place the surface normals shall be measured to within 10 arcsec (TBR) relative to the coordinates defined above.

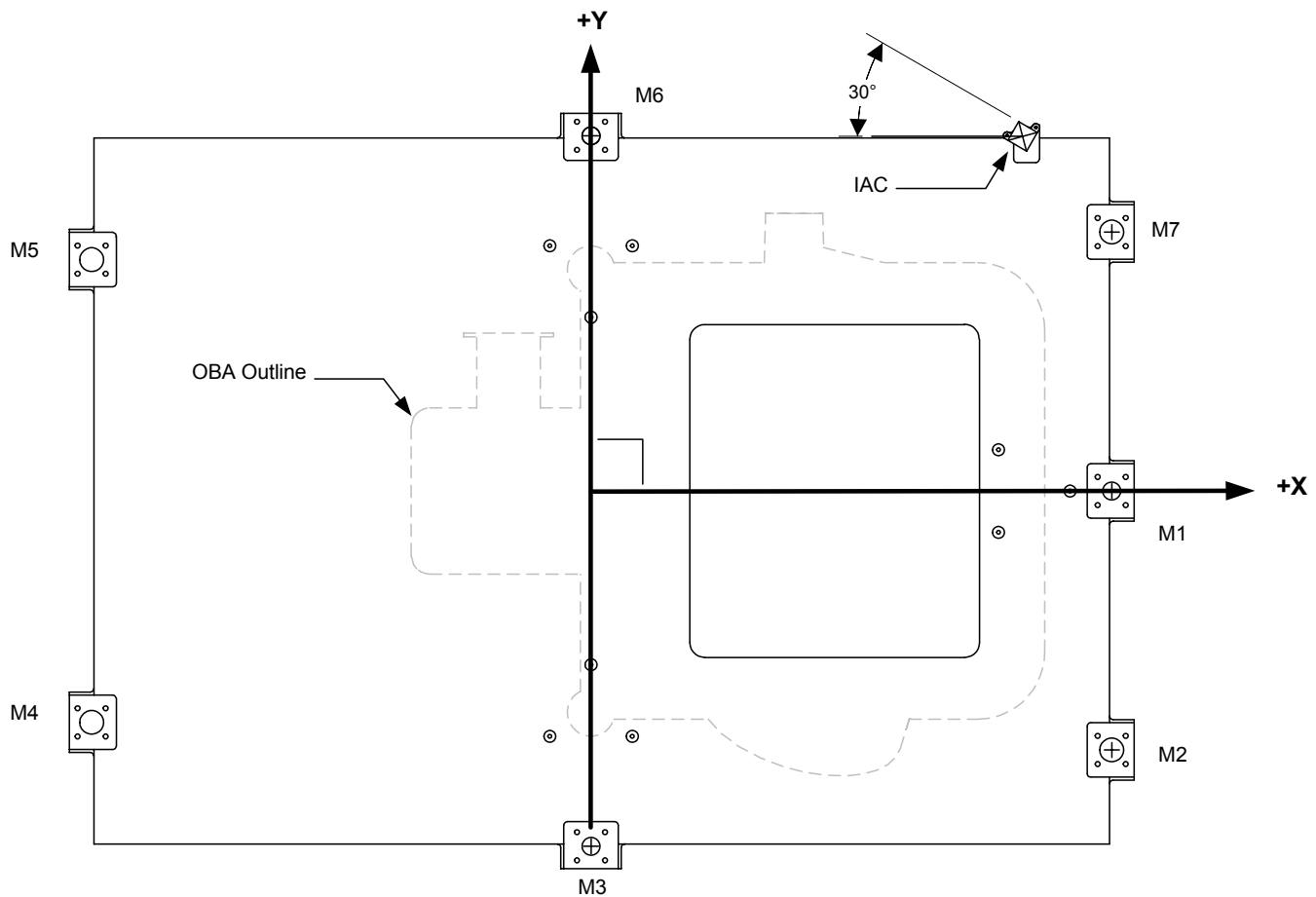


Figure 1 – View on +Z surface of baseplate